BioNanoScience 2016 vol.6 N4, pages 588-590

Evaluation of the Influence of Antifungal Drugs on Growth of Candida albicans in the Biofilm

Lisovskaya S., Khaldeeva E., Salmakova A., Kulikov S.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016, Springer Science+Business Media New York.The influence of commonly used in clinical practice, antifungals (fluconazole, voriconazole, nystatin, terbinafine), on Candida albicans cell cultures was investigated. Clinical strains isolated from patients with clinical signs of superficial candidal infections of various localizations were tested. Sensitivity of strains to drugs on planktonic cells and in the biofilms was determined. Strains with various levels of sensitivity and resistant to antimycotics were identified. It was established that MICs of the antifungal drugs which inhibit the growth of the biofilms were up to 1000 times higher than MICs, inhibiting growth of planktonic cells.

http://dx.doi.org/10.1007/s12668-016-0291-0

Keywords

Antifungal activity, Biofilm, Candida albicans, Minimal inhibitory concentration